

ABSTRACT

APPLICATION OF ZIPPERS TO FILM MATERIAL

An apparatus for application of zippers to film material 10 comprises an applicator bar 22 for presenting pre-cut lengths of zipper 26 to the film and a heated sealing bar 34 for sealing the pre-cut lengths to the film. The applicator bar, the sealing bar, feed rollers 30a, 30b and a zipper cutter 32 are mounted for movement with the film on a linear motor 14. A pneumatic cylinder 18 raised the application bar towards the film 10. The applicator bar moves in direction C to apply the zipper to the film 10 moving in direction A, then moves with the sealing bar and the film in direction B, away from the film in direction C', back to its starting position in direction B', then towards the film again in direction C. A further length of zipper may be fed to the applicator bar at any time after the bar has moved away from the film in direction C' and therefore during an end portion of the forward stroke of the motor, or during its return stroke.

(Figure 1)